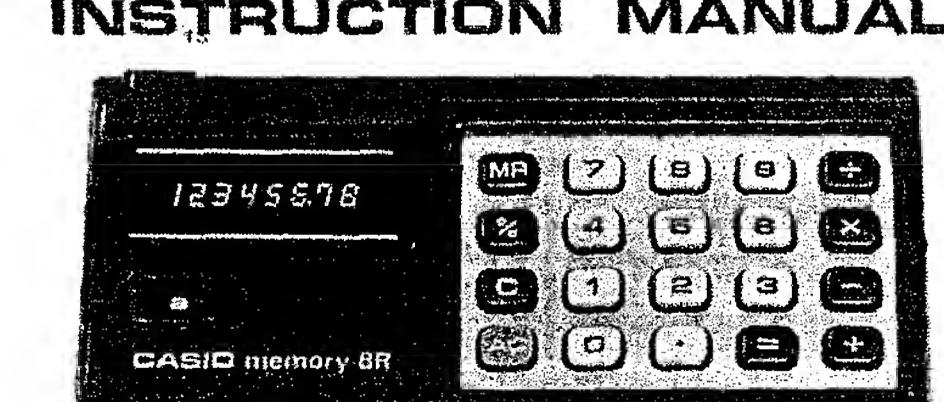


(Y-811)



ELECTRONIC CALCULATOR





asqat ni bətnirq 🐯

#### INTRODUCTION

Dear customer,

Congratulations on your purchase of this pocketable, personal electronic calculator with one memory.

Although extremely compact, it carries all the capabilities you could require for daily calculation needs....8 digit calculating capacity, automatic accumulation of results in four functions, full floating decimal system with underflow, constants for x/=, true credit balance, and a convenient 22 key for mark-up/discounts.

To utilize the full features of this calculator, no special training is required but we suggest you take a few minutes with this instruction manual to become familiar with its many abilities.

## 1/KEYBOARD

POWER SWITCH:
Move the switch to the right to start a calculation.
READ-OUT O.:
Shows each entry and result through an 8-digit Digitron tube panel
Suppresses unnecessary 0's (zeroes).
NUMERAL/DECIMAL POINT KEY   ~   =   , [ ] :
Enters numerals. For decimal places use the [] key in its logical
sequence.
FUNCTION COMMAND KEYS EL B. & EL:

## FUNCTION COMMAND KEYS ED, ED, ES & ES.

Press the numeral and-function command keys in the same logical sequence as the formula.

A full floating decimal and underflow system work in all calculations to protect significant digits.

## EQUAL & AUTOMATIC ACCUMULATION KEY E:

Obtains answer and automatically accumulates it into the memory positively.

## PERCENT KEY 2:

Performs percentage calculations, including mark-ups and discounts.

## MEMORY RECALL KEY III:

Recalls contents of the memory without clearing the same.

## CLEAR KEY E:

Clears display for correction. When depressed after function command, it clears the entire machine except the memory.

To correct the function commands, depress the appropriate function key ( , , or ) successively.

## ALL CLEAR KEY 2:

Clears the entire machine including memory, and releases an overflow check. There is no need to depress the a or key prior to starting each new calculation.

## 2/DISPOSABLE DRY BATTERY OR AC OPERATION

The calculator operates on either dry batteries or AC with the use of the AC ADAPTOR.

### DRY BATTERY OPERATION

With two AA size manganese dry batteries (SUM-3) it operates for approximately 9.5 hours continuously.

Even when battery power decreases, the display will merely darken but cause no miscalculation. When you have finished your calculation, be sure to switch off the power switch to save battery power. To change batteries, put the power switch off first. Slide open the battery cover and replace batteries.

#### AC OPERATION

If you are in a 117V area, for instance, use a 117V AC ADAPTOR,

When you use an AC ADAPTOR of a different voltage, it may cause damage to both the AC ADAPTOR and calculator.

Plug the applicable AC ADAPTOR (100, 117, 220 or 240V) into the AC outlet and the cord into the calculator. When plugged in, battery power supply stops automatically, so battery power is not wasted.

To prevent the damage to the calculator, USE ONLY THE AC ADAPTOR recommended by your dealer.

# 3/BASIC OPERATIONAL EXAMPLES

EXAMPLE	OPERATION	READ-OUT
741 - 258 + 963 = 1446	741 258 2963	3E 1446.
$12 \times 3.4 \times 56 = 2284.8$	1223 3 1 42 56	3 <b>日</b> 2284.8
$963 \div 25 = 38.52$	963 😂 25	38.52
(123 + 65.4 - 789) $\times 2.5 \div 5 = -300.3$	123 <b>13</b> 65 • 4 <b>15</b> 789	
* A negative figure is displ Note: To perform a prob operate 🖸 🗀 ENTR	lem commencing with	
-10-20+45=15	回日10日20日45	<b>5日</b>

## 4/CALCULATION WITH A CONSTANT

ENTRY E	(日日)	ENTRY E Obtains product (quotient).
		ENTRY E Obtains product (quotient).
The state of the s		Number entered is set as a con-
		stant multiplier (divisor).

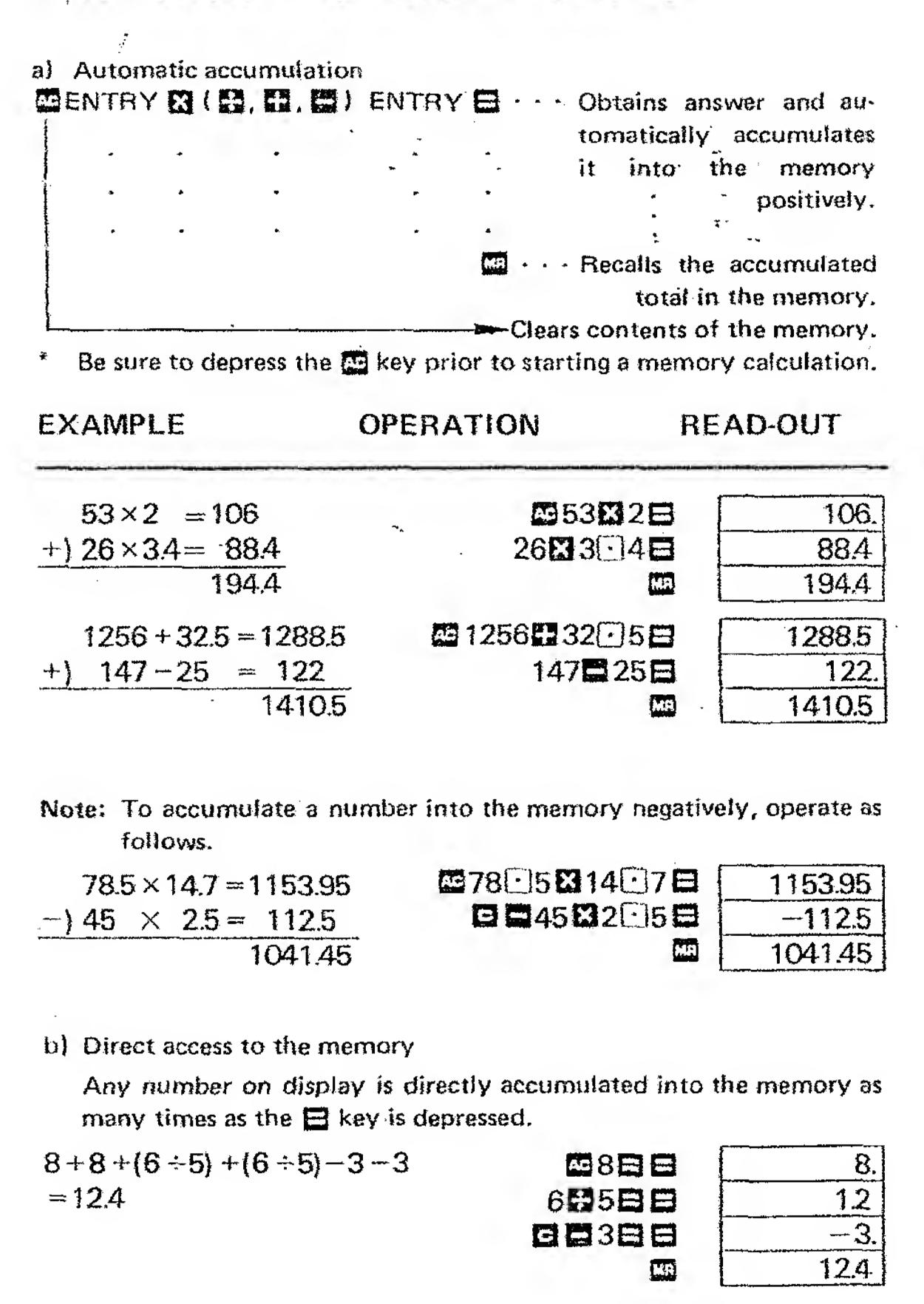
\* The constant is released when a normal calculation is performed.

EXAMPLE	OPERATION	RE	AD-OUT
(K)			
$3.14 \times 123 = 386.22$	3⊡	14🖾	3.14
$3.14 \times 456 = 1431.84$		<b>E3</b>	3.14
$3.14 \times 789 = 2477.46$	1:	23日、	386.22
	4!	56日	1431.84
	7:	89 <b>日</b>	2477.46
(K)		•	
$3652 \div 275 = 13.28$	2	75日	275.
$7854 \div 275 = 28.56$	•		275.
$9658 \div 275 = 35.12$	36	52 <b>日</b>	13.28
		54 <b>日</b>	28.56
	96	58 <b>三</b>	35.12

# 5/SQUARE/POWER & RECIPROCALS

EXAMPLE	OPERATION	RI	EAD-OUT
$2.5^2 - 6.25$	2(·)5 <b>E3 E3</b>		6.25
$2.5^3 = 15.625$			15.625
$2.5^4 = 39.0625$			39.0625
$\frac{1}{(2+3)\times 4.5}$ = 0.0444444	2 <b>□3□</b> 4⊡5 <b>□</b> 1		22.5 0.0444444
9876	123 456 6		57.9
123 + 456	9876	6	17.056994
=17.056994			

## 6/MEMORY CALCULATION



## 7/PERCENTAGE CALCULATION

The Rew works with both multiplication and division. Depressing the rew or key after finishing percentage multiplication gives a mark-up or discount.

EXAMPLE	OPERATION	READ-OUT
20% of 1450		
	1450 22 20 2	290.
Percentage of 580 against 1450 40%	580日1450日	40.
* A constant is also utilized in	n percentage calculation.	
20% mark up of 1450 	1450 22 20 27 23	1740.
	1450232022	1160.

## 8/OVERFLOW

Overflow takes place when an answer, whether intermediate or final, or an accumulated total in the memory exceeds 8 digit integers (or 7 digits, when the figure is negative.) in all calculations and is indicated by the "E" sign, stopping further calculation. To release the locked registers caused by the overflow check, depress the key.

EXAMPLE	OPERATION	READ-OUT
123456.78 × 9876	123456	123456.78
=121925915928	9876■	<i>E.</i>
(To start a r	new calculation.)	O.

## 9/PRACTICAL EXAMPLES

#### 9-1 PRO-RATING

## OPERATION READ-OUT

%	Sales amount	Division
25	\$ 3,375	Α
32	4,320	В
14	1,890	С
29	3,915	D
100	\$13,500	Total

<b>3</b> 375 <b>5</b>	3375.
4320	7695.
1890	9585.
3915	13500.
· 01 😂	135.
	135.
3375目	25.
4320目	32.
1890日	14.
3915日	29.
MR	100.
3915	29.

#### 9-2 INVOICING

Article	Q'ty	Unit price	Discount	Amount
А	100	\$18.95	5%	\$1,800.25
В	200	9.95	3%	1,930.30
С	300	13.95	10%	3,766.50
	To	tal .		\$7,497.05
6% sales tax			449.823	
<del></del>	Gr	and total		\$7,946.873

## OPERATION READ-OUT

 1930.3

 1930.3

 3766.5

 7497.05

 449.823

 7946.873

1800.25

## 10/SPECIFICATIONS

#### **OPERATIONS:**

Four basic functions, chain and mixed operation, constants for  $x/\div$ , automatic accumulation in four functions, direct access to the memory, percentage calculation including mark-up/discounts, square/powers, reciprocals, true credit balance and calculation involving decimal places.

#### **CAPACITY:**

Entry/display . . . . . . . . . . . . . . . . 8 digits (7 digits for negatives)
Addition/subtraction . . . . . . . . . . . 8 digits (7 digits for negatives)
Multiplication/division . . . . . . . . . . 8 digits (7 digits for negatives)
Accumulation into the memory . . . . . 8 digits (7 digits for negatives)

OPERATING SYSTEM: By 3 working registers.

DECIMAL POINT:

Full floating decimal point system with fool-

proof underflow.

NEGATIVE NUMBER:

Indicated by minus (-) sign on the left

of the figure.

OVERFLOW CHECK:

indicated by the "E!" sign, locking the

calculator.

READ-OUT: Zero suppression, Multi-Digitron tube panel.

MAIN COMPONENT: One chip LSI
POWER CONSUMPTION: 0.2W

POWER SOURCE:

AC: 100, 117, 220 or 240V (± 10V), 50/60Hz, with applicable AC Adaptor.

DC: Two AA size manganese dry batteries (SUM-3) operate about 9,5 hours continuously.

Two AA size alkaline dry batteries (AM-3) operate about 21 hours continuously.

USABLE TEMPERATURE: 32°F~104°F (0°C~40°C)

DIMENSIONS: 23.8 mm H x 148 mm W x 72 mm D

(1" H x 5-7/8" W x 2-7/8" D)

WEIGHT: 155 g (5.5oz) including batteries.

# CARE OF YOUR NEW ELECTRO-NIC CALCULATOR

The calculator is a durable, precision-made instrument which will provide you with years of trouble-free service.

To help ensure this we recommend that the inside of the calculator not be touched. It is also inadvisable to subject the calculator to hard knocks, drops, and unduly strong key pressing.

Extreme cold (below 32°F or 0°C), heat (about 104°F or 40°C) and humidity may also effect the function of the calculator. When you do not use the calculator for a long period, take out the batteries to prevent damage if the batteries leak. Special care should be taken not to leave the dead batteries inside the calculator. Please make sure you switch off the power when you finish your calculations or intend to open the cover to change batteries.

Should the calculator need service, take the unit to the store where purchased or to a nearby dealer.